

August 15, 2024

**FINANCIAL ASSISTANCE CENTER
FINDING OF NO SIGNIFICANT IMPACT/ENVIRONMENTAL ASSESSMENT**

TO: ALL INTERESTED GOVERNMENT AGENCIES AND PUBLIC GROUPS

In accordance with procedures for environmental review found at 10 CSR 20-4.050, the department has performed our review on the proposed action below:

PROJECT INFORMATION:

Project Identification: Rocky Mount Sewer District Phase III

Applicant: Rocky Mount Sewer District

Project No.: C295203-02

City: Rocky Mount

County: Morgan

State: Missouri

Total Project Amount: \$4,193,020

Total Clean Water State Revolving Fund Eligible Costs: \$4,193,020

- Potential Loan: \$1,886,859
- Potential Grant: \$2,306,161

COMMUNITY DESCRIPTION:

Location: The Rocky Mount Sewer District is located primarily in the immediate area around the community of Rocky Mount, located in southeast Morgan County. The Rocky Mount Wastewater Treatment Facility (WWTF) is located approximately 3,800 feet south of Highway Y, west of Red Arrow Road in Rocky Mount, Missouri.

Population, Present and Projected, and Design Year: The district has an existing customer base of approximately 442 customers. The proposed work included in Phase III will add approximately 300 additional residences to the district, between the addition of an existing Homeowners Association (HOA), as well as a number of other residences in the nearby area.

Current Methods of Waste Treatment: The existing Rocky Mount WWTF consists of the following components in the treatment train: bar screen, grit removal, flow equalization basin, extended aeration treatment, clarifier, tertiary filtration, and ultraviolet disinfection. The proposed work in this project will add a sludge storage basin but should not alter the methods of treatment for the facility.

PROJECT DESCRIPTION:

Purpose and Need: The project is a continuation of an ongoing project to expand the Rocky Mount Sewer District as a regional sewer district in the area and around the community of Rocky Mount to centralize and treat wastewater for the community. The regional facility is capable of treating wastewater in a way that will provide environmental and health benefits for the surrounding community.

Description of Project: The proposed project involves two separate focuses of work that combine to provide expansion of the sewer district and ensure proper operation of the treatment facility. First, the sewer extension work will involve the construction of approximately 26,681 linear feet of gravity sewer and force main, with 104 grinder stations to serve approximately 165 homes and 140 condos being connected to the district. This will also eliminate an existing treatment facility, the Timberlake WWTF, serving the condominium units. Additionally, upgrades will be made at the treatment facility, which will include the construction of a new sludge holding basin for the facility, as well as the construction of a second outfall that will discharge to a different receiving stream to comply with an existing agreement with regards to limiting the discharge of wastewater to the current receiving stream.

Design Factors: The new construction will include approximately 26,681 linear feet of gravity sewer and force main, along with construction of an additional 104 grinder stations to service these new additions. The diameter of the new sewer lines varies from 1.5 inches to 4 inches.

Receiving Stream: The existing receiving stream for the treatment facility is a presumed use stream tributary to the Lick Branch Cove of the Lake of the Ozarks. This receiving stream has the following designated uses: protection of aquatic life, whole body contact recreation that supports swimming, secondary contact recreation, human health protection, irrigation, and livestock and wildlife watering. As a result of a consent judgment, a new receiving stream must be selected as an outfall location for the facility to discharge flows exceeding a 451-home limit set by the judgment. As a result, this receiving stream and outfall will be utilized for flows up to that limit, above which the flow will be redirected to a second outfall, set to discharge to a tributary to the Bogue Bay Cove of the Lake of the Ozarks. This receiving stream has the following designated uses: protection of aquatic life, whole body contact recreation that supports swimming, secondary contact recreation, human health protection, irrigation, and livestock and wildlife watering.

ALTERNATIVES CONSIDERED:

Collection System:

Not Selected: Alternative No. 1 considers the option for installation of traditional gravity sewers to connect additional residences to the district's treatment facility. This would be done by installing 8 inch diameter PVC piping, with 4 foot diameter concrete manholes at all changes in grade and direction for the lines, with a maximum interval of 400 feet between manholes. Approximately 30 duplex pumping stations will also need to be installed for the expansion area to direct the wastewater flow to the treatment facility. Grinder pumps would be used in selected areas where traditional gravity sewers are not practical. The estimated total construction cost of this alternative is \$2,840,050, with a present worth cost of \$3,430,579.

Not Selected: Alternative No. 2 involves installing small diameter gravity lines and cleanouts, instead of traditional gravity lines like the ones proposed in Alternative No. 1. While fiberglass manhole structures were considered for this alternative, the lack of flexibility in implementation was an issue, so instead a proprietary option utilizing a polypropylene injection molded base for the manhole was analyzed. This option still will include construction of duplex pump stations to move flows through the collection system. The total construction cost of the alternative is \$2,740,300, with a total present worth cost of \$3,335,513.

Selected: Alternative No. 3 proposes utilizing a pressure collection system, which will involve the construction of smaller diameter force mains (1.5-inch to 4-inch) to connect the residences, where individual grinder stations will be installed to pump flows while providing a method of breaking up larger solids that could otherwise clog the small diameter force mains. The total construction cost of the alternative is \$2,726,970, with a total present worth cost of \$3,276,592.

Not Selected: Alternative No. 4 considers a septic tank effluent pump (STEP) system for collection system operation in the area. A STEP system utilizes a septic tank that separates solids from the liquid portion of the effluent stream, with a pump then being used to transport the flows to a pressure sewer. This alternative would require development of a pumping schedule for the installed septic tanks and would likely require the ownership of a pump truck to do so. Additionally, there are concerns of previous experiences with septic tank failure, as well as the separation of the solids and liquid in the septic tank potentially having downstream consequences, as the receiving wastewater treatment facility utilizes extended aeration for treatment, which needs some of the microorganisms present in the solid portion of the waste stream for continued successful operation. The total construction cost of this alternative is \$2,799,970, with a total present worth cost of \$3,666,352.

Treatment Facility:

Selected: Alternative No. 5 covers the proposed modifications for the Rocky Mount WWTF. This work includes the construction of a sludge holding basin at the treatment facility, as well as the establishment of a second outfall that discharges to a tributary to Bogue Bay Cove. This will include construction of a new lift station for moving that flow, as well as force main to connect to the new point of discharge. This work will help improve the operation of the existing treatment facility, as well as allow the facility to continue expanding and for the sewer district to grow. The total construction cost of this alternative is estimated at \$250,000.

REASONS FOR SELECTION OF PROPOSED ALTERNATIVE:

Alternative Nos. 3 and 5 were selected to meet the criteria needed for the sewer district to continue expansion, providing more effective treatment to the nearby community, while also selecting an alternative that is cost effective and has proven efficacy to ensure operation moving forward goes smoothly.

ENVIRONMENTAL IMPACT SUMMARY:

1. Primary:

- a. Construction: Temporary surface disruption, blowing dust, and noise from vehicles and equipment will occur during construction, but the Rocky Mount Sewer District expects these impacts to be minor and temporary in nature.
- b. Environmental: This project will provide a positive environmental impact to the surrounding area by eliminating existing on-site systems and a treatment facility that have been experiencing failure and directing the flow to a regional treatment facility capable of treating those flows to meet water quality standards, thus improving the surrounding areas water quality.
- c. Financial: With the Rocky Mount Sewer District being in the Lake of the Ozarks area, water use can be variable over the course of the year, due to seasonal peaks and variations in weekday versus weekend usage. However, the current estimated monthly charge for customers averages to approximately \$59.12 per month for the 442 residential customers. Current operation and maintenance costs approximate to around \$106,800 annually, and the debt repayment costs for the district are \$91,300 annually.

2. Secondary:

- a. Population Impacts: The Rocky Mount Sewer District anticipates no significant change in population trends resulting from this project. No significant relocation of people or structures are expected to result from this project.

- b. Land use and Trends: The Rocky Mount Sewer District anticipates no significant change in land use trends resulting from this project. The Rocky Mount Sewer District expects no development of sensitive areas.
- c. Environmental: The Rocky Mount Sewer District does not expect secondary environmental impacts caused by this project.
- 3. Mitigation Measures Necessary to Eliminate Adverse Environmental Effects: Best Management Practices and good engineering practices should minimize noise, blowing dust, and erosion normally associated with construction. The Rocky Mount Sewer District will promptly restore disturbed areas. Additionally, as a part of the variance granted for this project, sewer lines being installed in this project will be kept at least 10 feet away from any drinking water wells or sources, with the sewer lines within 50 feet of those wells and sources being encased in a PVC sleeve capable of managing the flow from the installed sewer lines to move the flow outside that 50-foot area to prevent leakage within those setback distances.
- 4. Irreversible and Irretrievable Commitment of Resources: Fuel and construction materials will be irretrievably committed to this project. Future funds will be committed to the operation and maintenance of the system.

PUBLIC PARTICIPATION:

- 1. Public Involvement: The Rocky Mount Sewer District held a public meeting on May 22, 2024, at the District Office at 27539 Highway W, Suite 201, in the Rocky Mount, Missouri, 65072.
- 2. Public Opposition or Opinions: The public expressed no adverse opinions to the project.

COORDINATION AND DOCUMENTATION WITH OTHER AGENCIES AND SPECIAL INTEREST GROUPS:

- 1. Facility Plan Dated: July 10, 2022
Prepared By: Alpha Engineering & Survey
Environmental Information Document: July 11, 2024
Prepared By: Alpha Engineering & Survey
- 2. Federal:
 - a. United States Fish and Wildlife Service
 - b. United States Army Corps of Engineers
- 3. State:
 - a. Missouri DNR – State Historic Preservation Office
 - b. Missouri DNR – Missouri Geological Survey
 - c. Missouri Department of Conservation
 - d. Missouri Office of Administration – Federal Assistance Clearinghouse

4. Consulting Engineer: Alpha Engineering & Survey
3048 Hwy 52
Eldon, MO 65026

5. In accordance with the National Historic Preservation Act Section 106, notice was given to all tribes that may attach a religious or cultural significance to historic properties in the region that may be affected by this undertaking.

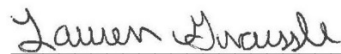
Positive Environmental Effects to be Realized from the Proposed Project: This project will eliminate a failing WWTF and failing on-site systems by regionalizing the wastewater flows to a treatment facility capable of providing sufficient treatment, improving the receiving waterbody water quality.

Reasons for Concluding There Will Be No Significant Impacts: The proposed project will have a positive impact on water quality and will not result in any significant adverse impacts on rare or endangered species, floodplains, wetlands, recreational areas, cultural/archaeological sites, or air quality. Population densities and land use trends will not be significantly affected. Appropriate mitigation measures will be implemented for minor impacts, which are expected to be temporal in nature.

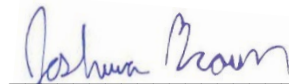
This action is taken on the basis of a careful review of the facility plan and supporting documentation on file in the office of the Missouri Department of Natural Resources' Financial Assistance Center at 1101 Riverside Drive, Jefferson City, MO 65101. These are available for public review upon request Monday-Friday, 8:00 a.m. to 5:00 p.m. This agency will not take any administrative action on this project for at least 30 calendar days from the date of this document. Persons wishing to comment on the above environmental decision may submit comments to Joshua Brown of the Missouri Department of Natural Resources, Financial Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176, during this period. E-mail comments will be accepted at the following address: DNR.SRFPublicNotice@dnr.mo.gov. Please include the project name and number in all comment letters. Thank you.

Sincerely,

FINANCIAL ASSISTANCE CENTER



Lauren Graessle, P.E.
Director



Joshua Brown, P.E.
Technical Reviewer

August 15, 2024

Date

LG:jbc

Attachments

DISTRIBUTION

Missouri Department of Conservation
P.O. Box 180
Jefferson City, MO 65102

Conservation Federation of Missouri
728 West Main Street
Jefferson City, MO 65101

U.S. Environmental Protection Agency
c/o Carter Tharp – WWPD/SRFB
Email: Tharp.carter@epamail.epa.gov

Missouri Department of Natural Resources
Missouri Geological Survey
Environmental Geology Section
P.O. Box 250
Rolla, MO 65402-0250

Missouri Department of Natural Resources
Division of State Parks
State Historic Preservation Office
P.O. Box 176
Jefferson City, MO 65102-0176

U.S. Fish and Wildlife Service
Ecological Services
101 Park DeVillie Drive, Suite A
Columbia, MO 65203-0057

National Park Service
Midwest Region
Email: mwro_compliance@nps.gov

USDA Rural Development
601 Business Loop 70 West
235 Parkade Center
Columbia, MO 65203

Gilmore and Bell, P.C.
c/o Shannon Walsh Creighton
One Metropolitan Square
211 North Broadway, Suite 2000
St. Louis, MO 63102-2741

SRF File C295203-02

Rocky Mount Sewer District
c/o Pam Bess
Chairwoman
P.O. Box 920
Rocky Mount, MO 65072

Alpha Engineering & Surveying
c/o Jared Wheaton, P.E.
3048 South Highway 52
Eldon, MO 65052

Missouri Department of Natural Resources
Central Field Office
P.O. Box 176
Jefferson City, MO 65102-0176

Eldon Advertiser
415 South Maple Street
P.O. Box 315
Eldon, MO 65026

Environmental Protection Agency
Office of Federal Activities
Ariel Rios (2252A)
1200 Pennsylvania Avenue, N.W.
Washington, DC 20004

Council of Environmental Quality
722 Jackson Place, N.W.
Washington, DC 20503

U.S. Army Corps of Engineers
Kansas City District
Missouri State Regulatory Office
515 East High Street #202
Jefferson City, MO 65101

Lake of the Ozarks Council of Local Governments
76 Chestnut Avenue, Suite 101
P.O. Box 3553
Camdenton, MO 65020

Lewis Rice
c/o David Brown
600 Washington Avenue, Suite 2500
St. Louis, MO 63101

Apache Tribe of Oklahoma
c/o Darrin Cisco
Tribe Historic Preservation Officer
E-mail: darrin.cisco@apachetribe.org

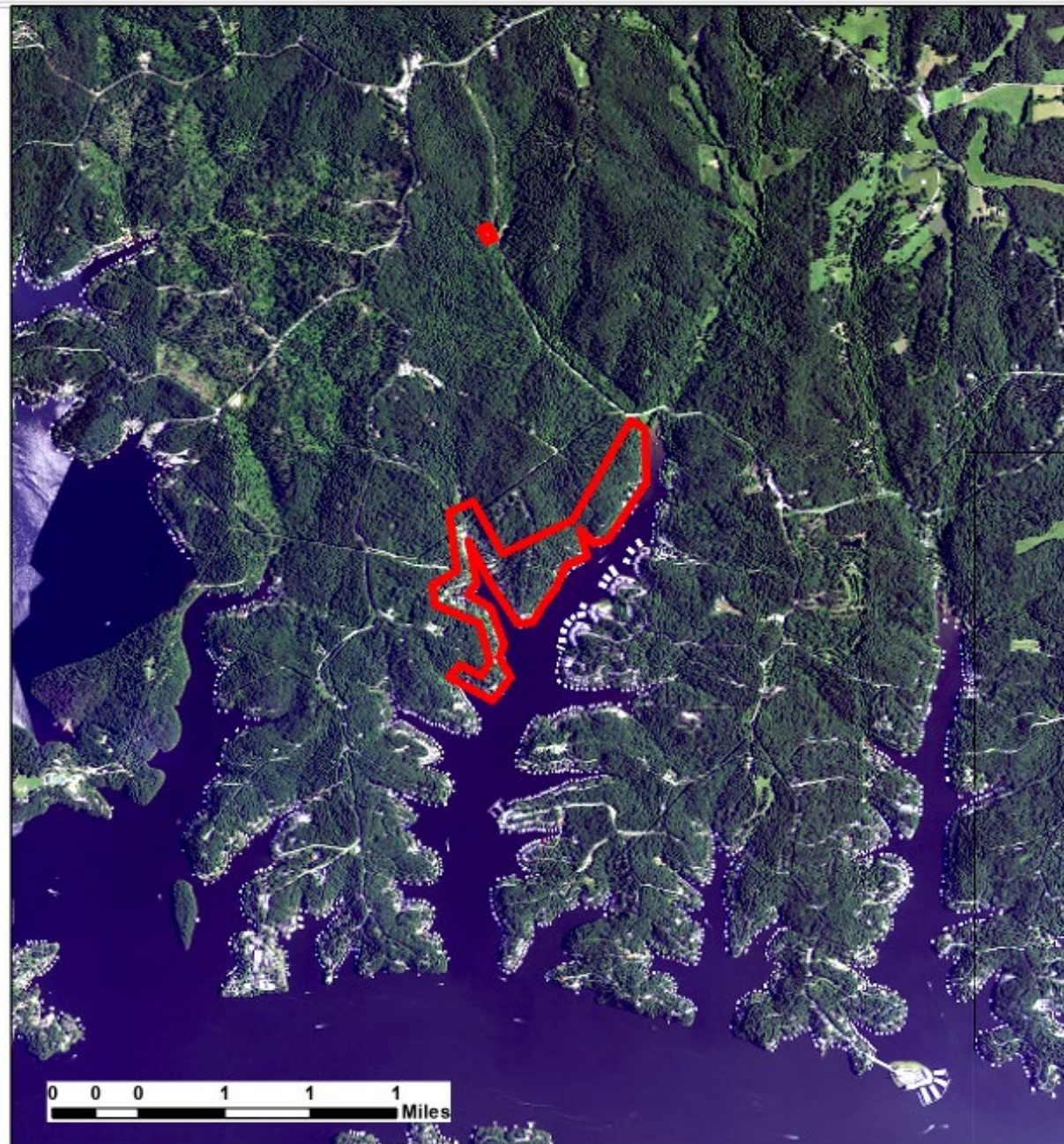
Kaw Indian Nation of Oklahoma
c/o Emily Douglas
E-mail: epadir@kawnation.com

Miami Tribe of Oklahoma
c/o Logan York (THPO)
E-mail: thpo@miamination.com

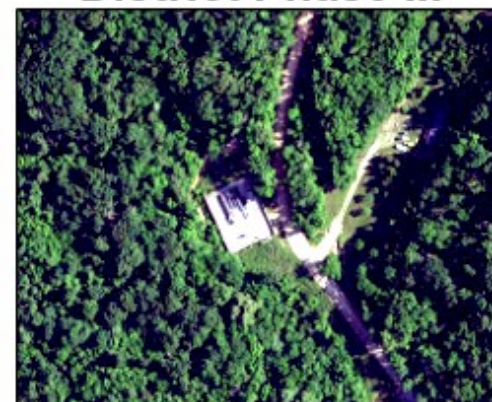
Osage Nation
c/o Dr. Andrea A. Hunter (THPO)
Osage Historic Preservation Office
Email: s106@osagenation-nsn.gov

Ponca Tribe of Nebraska
c/o Theresa Foley
Tribe Historic Preservation Officer
E-mail: tfoley@poncatrib-ne.org

Ponca Tribe of Oklahoma
c/o Liana Hesler (THPO)
E-mail: 106notifications@ponca-nsn.gov



Rocky Mount Sewer District Phase III



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